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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/758,721	01/16/2004	Rudy S. Padilla	83928	6553
32697	7590	07/28/2005	EXAMINER	
OFFICE OF PATENT COUNSEL SPAWARSYCEN, CODE 20012 53510 SILVERGATE AVE. ROOM 103 SAN DIEGO, CA 92152-5765			THOMAS, BRANDI N	
			ART UNIT	PAPER NUMBER
			2873	

DATE MAILED: 07/28/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/758,721

Applicant(s)

PADILLA ET AL.

Examiner

Brandi N. Thomas

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Election/Restriction filed on 4/8/05.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3,4,10 and 11 is/are rejected.
- 7) ☒ Claim(s) 2,5-9 and 12 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.


RICKY MACK
PRIMARY EXAMINER

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 1/16/04.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☒ Other: Detailed Action.

DETAILED ACTION

Information Disclosure Statement

1. Acknowledgement is made of receipt of Information Disclosure Statement(s) (PTO-1449) filed 1/16/04. An initialed copy is attached to this Office Action.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 3, 4, 10, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Greywall (6690850) in view of Holman et al. (US 2004/0080938).

Regarding claim 1, an optical modulator, comprising: a substrate (1274) (col. 11, line 6); a reflector (1276) (col. 11, lines 7-10); a pair of electrically conductive traces (1384) operably connected to said reflector (col. 11, lines 27-31); an electrically conductive pad (1382) operably connected to each of said conductive traces (1384) (col. 11, lines 27-31); and a biasing source (532A and 532B) operably coupled to said conductive pads (1382) for providing a modulated voltage to said reflector (1276) (col. 11, lines 7-10) but does not specifically disclose three substantially planar reflectors arranged substantially mutually orthogonal to each other and wherein said planar reflectors comprise: a base reflector disposed substantially in the plane of said substrate; and first and second side reflectors operably couple to said base reflector.

Holman et al. discloses, in figure 48, discloses three substantially planar reflectors arranged substantially mutually orthogonal to each other and wherein said planar reflectors comprise: a

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base reflector (1010) disposed substantially in the plane of said substrate; and first and second side reflectors (1006 and 1008) operably couple to said base reflector (section 0356). Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the device of Greywall with the reflector of Holman et al. for the purpose of providing wide-angle output light (section 0356).

Regarding claim 3, Holman et al. discloses, in figure 48, an optical modulator, wherein said base reflector (1010) comprises at least one layer by which the reflection properties of said base reflector (1010) is altered with an applied voltage (section 0358).

Regarding claim 4, Holman et al. discloses, in figure 48, an optical modulator, wherein said base reflector (1010) comprises an electrochromic stack (sections 0356-0358).

Regarding claim 10, Holman et al. discloses, in figure 48, an optical modulator, wherein said base reflector (1010) comprises a plurality of layers which form a capacitive structure (section 0358).

Regarding claim 11, Holman et al. discloses, in figure 48, an optical modulator, wherein said base reflector (1010) comprises an electro-optic material (sections 0356-0358).

Allowable Subject Matter

4. Claims 2, 5-9, and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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5. The prior art taken either singularly or in combination fails to anticipate or fairly suggest the limitations of the independent claim(s), in such a manner that a rejection under 35 U.S.C. 102 or 103 would be proper. The prior art fails to teach a combination of all the claimed features as presented in claim(s) 2, 5-9, and 12, wherein the claimed invention comprises a source for directing a beam of incident electromagnetic energy to said substantially planar reflectors; and a detector for collecting a reflected beam of modulated electromagnetic energy from said substantially planar reflectors; wherein the electrochromic stack comprises an ion storage layer; an ion conductive layer disposed on said ion storage layer; and an electrochromic layer disposed on said ion conductive layer; and a first structural member operably coupled to the first reflector, first mini-locking plate, a tenon, a second structural member operably coupled to said second reflector, second mini locking plate, and a third structural member operably coupled to the second side reflector, as claimed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brandi N. Thomas whose telephone number is 571-272-2341.

The examiner can normally be reached on 8-5.

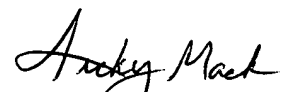
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on 571-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



BNT


RICKY MACK
PRIMARY EXAMINER